

THE COUNCIL FOR TOBACCO RESEARCH-U.S.A., INC.

July 15, 1975

MEMORANDUM

TO: Drs. Hockett, Jacobson, Meier, Sommers and Stone

FROM: W. U. Gardner

SUBJECT: Grant 573-C.

Progress Report - August 1, 1974 to July 1, 1975.

Request for Extension from October 1, 1975 through June 30, 1976.
Clayton G. Loosli, M.D., Ph.D., Hastings Professor of Medicine and
Pathology, University of Southern California School of Medicine,
Los Angeles.

"The Effects of Fresh Cigarette Smoke Inhalation on the Respiratory
Tract of Mice."

Comment on the Progress Report. The work on the vaccination against
the Sendai virus infection is now in press. Four strains of mice have been used --
C57B1/6J, C57L/J, SWR/J and CD-1. The mice with Sendai virus had lesions like
those of mice with PR8-A influenza virus infection. There was, however, no
cross reaction between the two viruses.

Mice of all except the CD-1 have been exposed to the smoke of either
1 or 4 cigarettes daily for up to 20 months. Some mice of each group have been
on no vitamin A for a number of months. These mice are now all off the experiment.
Up to 12-months exposure there had been no bronchial metaplasia or alveolar
adenomas. The major change was a chronic pneumonitis. All of the SWR/J mice have
been taken off and the usual morphological and surfactin studies are being done.

Proposed Continuation.

1. Follow some of the C57- mice mentioned above for four more months
or until 26 months of age.
2. Start a group of C57 mice 5- and 10-months old, no vitamin A with
regular diet controls then progressing to 6 cigarettes daily for
6 months and then expose to PR-8 in December 1975.
3. Similar to above using younger mice (starting 4 months of age).
4. Study influenza lesions for 40-80 days in no vitamin A C57 mice.
The 0-25-day lesions are already available.

5. PB-A virus
- | | | |
|-----------|-------------|--|
| No vit. A | 3MC 6x/wkly | The intratracheal carcinogens
will be given to mice under
pentobarbital. Each carcinogen
and controls will require 250
mice. |
| BaP | " | |
| RD | 3MC | |
| BaP | " | |

Slides have been sent for examination by SCS.

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Funds Requested. \$49,274.00 For technical assistance for 9 months, animal care for 6 months, expendable supplies and publication costs. Professional and secretarial salaries will be provided from other sources.

Reprint. "Effect of Vitamin A Intake on the Pathology of Airborne Influenza A Virus Infection." Very little difference between no vitamin A, RD and HA except a little more metaplasia in the no vitamin.

Recommendation. Submit to SAB for consideration at September meeting.

W.U.G.

WUG:ek

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